

PERSONAL

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LANGUAGES

English ★★★★★

BELAL MAHMOUD ABD EL RADY

Having **7 years of Experience** in Operating Power and Petrochemical Plants Core Work Utility and Water Treatment Sector& Currently **Based in the** Arab Republic of Egypt Seeking a Challenging and Dynamic work environment that help me enhance my Knowledge, Skills & experience to a whole new level.



EDUCATION AND QUALIFICATIONS

- Sep 2011 - Jun 2015 **BSc. Degree of Science in Chemistry**
[Alexandria University, Egypt, Alexandria](#)
Major: **Chemistry** & Minor: **Microbiology** (Grade: **Excellent With Honor**)

Graduation Project: (Metals Corrosion Protection and Coating Technologies)
(Grade: Excellent)
- Sep 2021 - Present **Master Researcher**
[Institute of graduate studies and research, Alexandria](#)

- Current working on my master degree at Alexandria (Institute of Graduate Studies and Research) working on (Treatment of RO membrane fouling using mechanical and chemical cleaning).
- Sep 2018 - Jul 2019 **Biochemistry Diploma**
[El Mnufya, El Mnufya](#)



WORK EXPERIENCE

- Oct 2019 - Present **DCS Operator**
[At UTILITY Plant – SIDPEC, Alexandria](#)

Job Duties: Monitor and record DCS Instrument Readings of the parameters to ensure safe operation and quality product and report deviations from standards to take the appropriate corrective actions
 - Monitor and analyze PI system Operating charts for operating the Plant at its Best Efficiency point.
 - Report all shift activities including abnormalities, Preventive maintenance, Overrides, and lab analysis.
 - Perform Normal Start-Ups, Shutdowns, and Emergency troubleshooting as per the Operating Manuals and Operating Procedures of the assigned area.
 - Prepare JSA for each PTW and identify prevention and mitigation controls.
 - Follow up process from water intake (source) till other operational treatment passes which are listed below.
Areas of Experience:
 - Intake pumping station and raw water clarifiers.
 - Filtration techniques using different types of filters.
 - Cooling towers.
 - Desalination units using (RO) techniques
 - Demineralization units using ion exchange processes.
 - High pressure water tube boiler.
 - Air unit with centrifugal compressors and refrigeration and dryer units.
 - Complete firefighting system.

Sep 2017 - Sep 2019

Plant & Control Room Operator

At Siemens (O & M) El Brullus Power Plant (4800 MW), Kafr El Sheikh – Egypt

Job Duties:

- Monitor maintenance activities within the area of responsibility to ensure from complying activities with HSE and PTW procedures
- Train and become proficient in other areas of the plant.
- Responsible for immediate reporting of Unsafe Acts, Unsafe Conditions & Near Misses.
- Takes first-line emergency action to contain the situation according to Emergency Response Plan (ERP).
- Record and log all required process conditions in the area and note any deviation from normal.
- Prepare equipment for maintenance as per Control of process Isolation procedure and Maintenance Preparations Procedures
- Carry out routine checks on process equipment to ensure continuing satisfactory operation and compliance with required process conditions.
- Review JSA for each PTW and ensure from prevention and mitigation controls are correctly executed.
- Permanent member of major turnarounds team.

Areas of Experience:

- Intake pumping station from Mediterranean Sea.
- Hypochlorite Production Unit form Sea Water.
- Ultrafiltration Unit (UF).
- Reverse osmosis Units.
- Potable water production Unit.
- Sea water and brackish water.
- Electrodeionizatoion (EDI) for Demi water production.
- Waste water treatment plant.
- Sewage treatment Unit.
- Cooling Towers Treatment programs.
- Chemical dosing system and Online System for Boilers water and steam Quality Monitoring.
- Dosing and monitoring of closed cooling systems.
- Monitor the water quality at every step of treatment and follow up Mega boilers water quality and the produced steam quality.
- Keep the whole power plant in an operation thro ugh consistent water supply for operating steam boilers.
- Keep all of the plant utilities in an excellent operation conditions.

Areas of Experience:

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- Dosing and monitoring of closed cooling systems.

Feb 2017 - Sep 2017

Commissioning Panel Operator

At Egyptian holding company El Brullus Power Plant (4800 MW), El Burullus - Kafur El Sheikh – Egypt

Job Duties: Assisted in punching listings, air blowing, steam blowing, and mechanical test runs for Various Equipment in cooperation with (Siemens Energy) company.

- Cooperate (Metito) company in all of commissioning steps and performance tests for utility units listed below.
- Revising DCS Schematics and Performing Function Tests for Control Loops
- Prepared process equipment for maintenance work as per safe work practices procedures
- Performing Dry Out for equipment and Pipelines as per datasheets
- Performing safe and efficient start-up for the plant equipment
- Developed health, safety, and environmental policies. Ensured implementation of safe working practices.
- Install RO membranes for reverse osmosis units and apply performance testing.

Area Of Experience

- Intake pumping station from Mediterranean Sea.
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- Chemical dosing system and Online System for Boilers water and steam Quality Monitoring.

Dec 2016 - Feb 2017

Quality Assurance Specialist

Pharco Pharmaceutical Industries company, Alexandria

Job Duties:

- Ensuring that manufactured items are made and assemble correctly according to Governorate standards, safety regulations and customers' satisfaction.
- Perform all activities are done under SOPs guidelines.
- Performs complex inspections and sets quality standards for both in process and finished products and materials.
- Develop methods for testing, sampling, and training and may evaluate production and recommend improves.
- Review batch dossier for product release to ensure right and correct implementation of transfer SOPs to validate each product transfer.
- Plan help to develop and execute the overall Quality Assurance strategy for the Power Steering product.
- Mentor other QA staff members of the software Quality Assurance organization.



TECHNICAL SKILLS

Technical Skills

- Fully aware of **DCS, SIS & ESD** Elements functions and troubleshooting.
- Fully aware of **PI system Dashboards** for Plant Efficiency monitoring & Digital Twin between PI System and PETROSIM software (real time model)
- Fully aware of components and Maintenance of Mechanical Static Equipment (Boilers, Valves, Pipelines, Vessels, Towers) and Rotary Equipment (Compressors, Turbines, pumps.)

- Fully aware of both Operation safety and Process safety Standards.
- Fully aware of performing **Risk Assessments** and PTW electronic systems.
- Fully aware of Using **Process simulation software** to calculate different process parameters and equipment Efficiencies.
- Fully aware of Reading, Drawing and Modifying **P&ID** drawings.



SAFETY SKILLS

Safety Skills

- Fully aware of **PTW System**
- Fully aware of **MOC** Implementation System
- Fully Aware of **Energy Isolation** procedures
- Fully aware of **Confined Space** Entry Procedure



SOFTWARE SKILLS

- PETROSIM Process and utility simulation software ★ ★ ★ ★ ★
- PI system Dashboards. ★ ★ ★ ★ ★
- MAXIMO control of work System. ★ ★ ★ ★ ★
- MS OFFICE programs. ★ ★ ★ ★ ★



SOFT SKILLS

- **Communication Skills**
Effective Communication, Initiative, Flexible, adaptable, very good listening skills, Extrovert with high ability to work in groups and lead them, systematic thinking approach.
- **Reporting Skills** High ability to write technical reports.
- **Presentation Skills** High ability to Perform technical presentations.



COURSES

- 2018 - 2018 • **Water treatment Technologies– 40 Hours**
[Metito company water treatment](#)
- Sep 2023 - Jul 2023
2017 - 2017 • **Good manufacture practice (GMP) courses.**
[Pharco Pharmaceutical Industries company](#)
- 2021 - 2021 • **Business Essential Skills Certificate**
[ESLSCA University - Egypt branch.](#)
Diploma for presentation, communication, reporting & business writing skills.
- 2022 - 2022 • **Petro-Sim Process Simulation Software – 40 Hours**
[KBC – A YOKOGAWA Company](#)

KBC – A YOKOGAWA Company
Project for Application: Building Utility Model for the steam & Fuel system in SIDPEC plant.
- 2023 - 2023 • **Authorized Gas Tester (AGT) from IIRISM**
[IIRISM](#)



REFERENCES



Sidpec

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